2 Gallon Compressed Air Systems

DOA-P106T-AA

71R142-P075T-D300X

Applications

- Beverage Dispensing
- Lab Use
- Portable Displays
- Commercial Door Actuation
- Portable - Off Site Use

Includes

- Pressure Switch
- Manual Drain
- Pressure Safety Valve (ASME)
- Pressure Gauge
- Unloading Capability
- Globe Valve
- 100% Oilless Operation

1HAB-11T-M100X

ROA-P206T-AA

Model Number	Tank Size Gallons	CFM @ PSIG						ON/OFF psig	0 to 100 Setting	Recovery of Standard Setting	Motor Voltage	HP	Shipping Weight lbs.
		0	10	30	50	70	100						
ROA-P206T-AA	2	.76	.65	.47	.38	.27	.19	70/100	5:00	1:55	115-60-1	1/8	39
DOA-P106T-AA	2	1.00	.85	.50	.20	-	-	30/50	1:30	0:55	115-60-1	1/8	39
1HAB-11T-M100X	2	1.25	1.10	.85	.65	.4	.35	70/100	2:55	0:55	115-60-1	1/6	49
1LAA-11T-M100X	2	1.5	1.35	1.1	.90	-	-	30/50	0:50	0:20	115-60-1	1/6	49
2HAH-11T-M200X	2	1.65	1.55	1.30	1.15	.90	.85	70/100	1:45	0:30	115-60-1	1/4	56
71R142-P075T-D300X	2	2.00	1.80	1.50	1.20	1.10	.90	70/100	1:30	0:25	115-50/60-1	1/3	42

Conversion Factors
Multiply A X B =C

A	B	C
atmospheres	14.70	pounds/sq. inch
bars	14.50	pounds/sq. inch
kilograms/sq. cm.	14.22	pounds/sq. inch
pounds/sq. inch	0.07031	kilograms/sq. cm.
pounds/sq. inch	6.895	kilopascals (kPa)
kilopascals (kPa)	0.145	pounds/sq. inch
cubic feet	28.32	liters
cubic feet	7.48052	gallons (U. S. liq.)
cubic feet/min.	28.32	liters/min.
liters	0.03531	cubic feet
cubic meters	35.31	cubic feet
cubic meters/hour	0.5885	cubic feet/min.
inches	25.40	millimeters
centimeters	0.3937	inches
millimeters	0.03937	inches
cubic feet	1728	cubic inches
cubic inches	.004329	gallons
inches mercury (absolute)	.4912	pounds/sq. in.

12, 20, 30 Gallon Compressed Air Systems (Simplex)

7HDD-11T-M750X

5HCD-11T-M550X

Applications

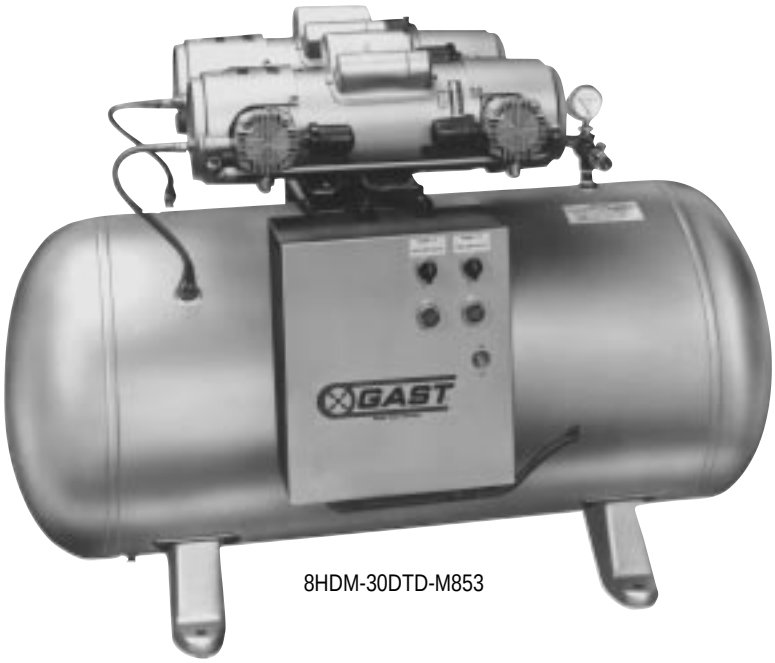
- Cylinder Actuation
- Pneumatic Temperature Control
- Photo Processing
- Spray Painting
- Pneumatic Logic
- Small to Medium Shops and Filling Stations

Includes

- ASME Coded Tank
- Pressure Switch
- Manual Drain
- Pressure Safety Valve (ASME)
- Pressure Gauge
- Globe Valve
- Magnetic Starter (6HCA, 7HDD & 8HDM not shown in picture)
- 100% Oilless Operation (auto drain assembly K602 optional)

Model Number	Tank Size Gallons	CFM @ PSIG						ON/OFF psig	0 to Off Setting Min/Sec	Recovery of Standard Setting Min/Sec	Motor Voltage	HP	Shipping Weight lbs.
		0	10	30	50	70	100						
3HEB-11T-M345X	12	2.40	2.2	1.85	1.50	1.30	1.15	80/100	5:45	1:55	115-60-1	1/3	93
4HCC-11TA-M450X	20	3.50	3.3	2.80	2.40	2.10	1.70	80/100	7:00	2:50	230-60-1	1/2	118
4HCC-11T-M450X	20	3.50	3.3	2.80	2.40	2.10	1.70	80/100	7:00	2:50	115-60-1	1/2	118
5HCD-11TA-M550X	20	4.70	4.40	3.90	3.40	2.90	2.40	80/100	5:00	1:55	230-60-1	3/4	121
5HCD-11T-M550X	20	4.70	4.40	3.90	3.40	2.90	2.40	80/100	5:00	1:55	115-60-1	3/4	121
6HCA-11TA-M616X	30	5.40	5.20	4.70	4.30	3.90	3.20	80/100	5:50	2:25	230-60-1	1	124
6HCA-11T-M616X	30	5.40	5.20	4.70	4.30	3.90	3.20	80/100	5:50	2:25	115-60-1	1	124
6HCA-11TC-M617	30	5.40	5.20	4.70	4.30	3.90	3.20	80/100	5:50	2:25	230-60-3	1	123
6HCA-11TD-M617	30	5.40	5.20	4.70	4.30	3.90	3.20	80/100	5:50	2:25	460-60-3	1	123
7HDD-11T-M750X	30	9.00	8.40	7.25	6.50	5.75	5.0	80/100	4:15	1:35	115-60-1	1 1/2	155
7HDD-11TA-M750X	30	9.00	8.40	7.25	6.50	5.75	5.0	80/100	4:15	1:35	230-60-1	1 1/2	155
7HDD-11TC-M853	30	9.00	8.40	7.25	6.50	5.75	5.0	80/100	4:15	1:35	230-60-3	2	155
7HDD-11TD-M853	30	9.00	8.40	7.25	6.50	5.75	5.0	80/100	4:15	1:35	460-60-3	2	155
8HDM-11TC-M853	30	11.00	10.25	9.25	8.5	7.5	7.0	80/100	3:30	1:10	230-60-3	2	160
8HDM-11TD-M853	30	11.00	10.25	9.25	8.5	7.5	7.0	80/100	3:30	1:10	460-60-3	2	160

GAST 60 Gallon Compressed Air Systems (Duplex)



8HDM-30DTD-M853

Applications

- Hospitals
- Medical /Dental Clinics
- Pneumatic Temperature Control
- Small to Medium Shops and Filling Stations
- Pneumatic Logic
- Clean Room Environment

Includes

- ASME Coded Tank
- Easy-to-use Electric Panel (see Page 10)
- Manual Drain
- Pressure Safety Valve (ASME)
- Pressure Gauge
- Globe Valve
- 100% Oilless Operation (auto drain assembly K602 optional)

Model Number	Tank Size Gallons	Total CFM of both Units @ PSIG						#1Pressure Setting On/Off psig	#2 Pressure Setting On/Off psig	Pump Up Time in Minutes: Seconds (Approx.)			Voltage/Motor Enclosure	HP	Shipping Weight lbs
		0	10	30	50	70	100			On-Off Setting or 0-90 psig	Recovery of 1 Pump 80-100	Recovery of 2 Pumps 70-100			
4HCC-89DT-M450X	60	7.00	6.60	5.60	4.80	4.20	3.60	80/100	70/90	10:55	5:00	4:10	115-60-1 Open	1/2	360
4HCC-89DTC-M553	60	7.00	6.60	5.60	4.80	4.20	3.60	80/100	70/90	10:55	5:00	4:10	230-60-3 Open	3/4	360
6HCA-15DT-M616X	60	10.80	10.40	9.40	8.60	7.80	7.00	80/100	70/90	6:40	3:10	2:25	115-60-1 Open	1	425
6HCA-15DTA-M616X	60	10.80	10.40	9.40	8.60	7.80	7.00	80/100	70/90	6:40	3:10	2:25	230-60-1 Open	1	425
6HCA-15DTC-M617	60	10.80	10.40	9.40	8.60	7.80	7.00	80/100	70/90	6:40	3:10	2:25	230-60-3 Open	1	425
6HCA-15DTD-M617	60	10.80	10.40	9.40	8.60	7.80	7.00	80/100	70/90	6:40	3:10	2:25	460-60-3 Open	1	425
7HDD-69DTA-M750X	60	18.00	16.80	14.50	13.00	11.50	10.50	80/100	70/90	4:20	2:25	1:40	230-60-1 Open	1.5	450
7HDD-69DTC-M853	60	18.00	16.80	14.50	13.00	11.50	10.50	80/100	70/90	4:20	2:25	1:40	230-60-3 Open	1.5	450
7HDD-69DTD-M853	60	18.00	16.80	14.50	13.00	11.50	10.50	80/100	70/90	4:20	2:25	1:40	460-60-3 Open	1.5	450
8HDM-30DTA-M850X	60	22.00	20.50	18.50	17.00	15.00	14.20	80/100	70/90	3:30	1:50	1:30	230-60-1 Open	2	455
8HDM-30DTC-M853	60	22.00	20.50	18.50	17.00	15.00	14.50	80/100	70/90	3:20	1:40	1:10	230-60-1 Open	2	455
8HDM-30DTD-M853	60	22.00	20.50	18.50	17.00	15.00	14.50	80/100	70/90	3:20	1:40	1:10	460-60-3 Open	2	455

Vacuum Tank Systems (Simplex and Duplex)

0523-V184T-G588DX

2565-V93DTC-T336

Applications

- Vacuum Thermo-Forming
- Food Processing
- Impregnation & Degassing
- Avionics
- Tansfer/Handling Equipment

Includes

- Swing Type Check Valve
- Vacuum Switch
- Large Inline Filter/Exhaust Muffler
- Easy-to-use Electrical Panel (Duplex only - See page 10)
- Vacuum Gauge Pre-tank Filter AV460C Optional)

Tank Simplex Model Number	Size (Gallons)	Switch Setting " Hg		Approximate Pump Down Speed (minutes: seconds)		System Voltage O = Oilless L = Lubricated	H.P.	Shipping Weight lbs
		Off	On	0-25" Hg	20-25" Hg			
0523-V81T-G588DX	2	25"	20"	0:15	0:09	115-60-1/L	1/4	47
0523-V184T-G588DX	2	25"	20"	0:15	0:09	115-60-1/O	1/4	46
1023-V17T-G608X	30	25"	20"	1:30	0:45	115-60-1/L	3/4	191
1023-V17TA-G608X	30	25"	20"	1:30	0:45	230-60-1/L	3/4	191
1023-V126T-G608X	30	25"	20"	1:30	0:50	115-60-1/O	3/4	191
1023-V126TA-G608X	30	25"	20"	1:30	0:50	230-60-1/O	3/4	191
2565-V90TC-T336	30	25"	20"	0:30	0:14	230-60-3/L	1.5	234
2565-V90TD-T336	30	25"	20"	0:30	0:14	460-60-3/L	1.5	234

Duplex Model Number	Tank Size Gallons	Switch Setting"Hg				Approximate Pump Down Speed (minutes;seconds)			System Voltage Lubricated-L Oilless-O	H.P.	Shipping Weight lbs
		Switch #1		Switch #2		0-25" Hg	20-25" Hg	17-25" Hg			
		Off	On	Off	On	(2 pumps)	(1 pump)	(2 pumps)			
2565-V93DTC-T336	60	25"	20"	20"	17"	0:30	0:29	0:17	230-60-3/L	1.5	450
2565-V93DTD-T336	60	25"	20"	20"	17"	0:30	0:29	0:17	460-60-3/L	1.5	450
6066-V113DTC-T339	60	25"	20"	20"	17"	0:29*	0:15*	0:13*	230-60-3/O	5	
						0.25**	0.10**	0:8**			575
6066-V113DTD-T339	60	25"	20"	25"	17"	0.29*	0.15*	0:13*	460-60-3/O	5	
						0.25**	0.10**	0.8**			575

* Pump running cold

**Pump operating at stabilized

Duplex Control Panel

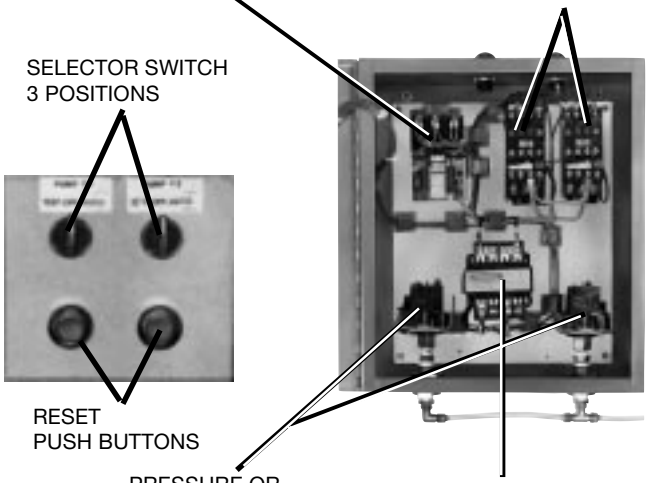
Gast Duplex Control Panel has been designed to offer the customer all the options necessary to operate their tank package efficiently and safely. All panels are completely wired and tested prior to being installed on the unit. The entire package is then tested as a system before leaving Gast.

STANDARD EQUIPMENT INCLUDES:

- All electric components UL and CSA recognized. See components for other listing.
- Panel mounted three position (Test-On-Off) selector switch
- Panel door mounted reset push-button for each magnetic starter
- Motor Starters - Each motor is equipped with a quick response, factory set thermal overloads.
- Alternator - Heavy duty electromechanical device insures the reliability expected by Gast quality minded engineers.
- Transformer - Industrial Grade reduce voltage transformer.

ALTERNATOR - This UL, CSA and IEC recognized component automatically alternates which pump operates each cycle. The alternator is wired (control circuit) in such a way that if one pump cannot satisfy the demand alone, then the other pump will start and both will run until the demand is satisfied.

MAGNETIC STARTER – supplied for each motor. This UL, CSA, and IEC recognized component incorporates heavy duty contacts which complete (start) or open (stop) the circuit to the motor. The contactor (contact bar) is actuated by a magnetic coil energized by the 115 volt control circuit.



SELECTOR SWITCH 3 POSITIONS

RESET PUSH BUTTONS

PRESSURE OR VACUUM SWITCH

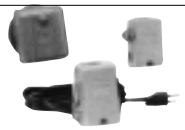
TRANSFORMER – This component is UL, CSA and IEC recognized. The step down transformer supplies only the control circuit with 115 volts (the electric motors could operate at a higher voltage). The transformer secondary is fused to protect the control components from a voltage surge which otherwise could damage their operation.

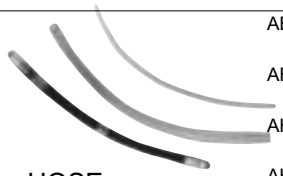
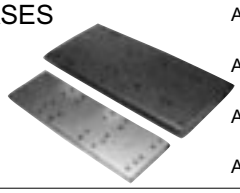
CONTROL CIRCUIT COMPONENTS – (selector switch, sensing switch (pressure or vacuum), magnetic starter coil and alternator).

Similar panels are used on pressure and vacuum tank packages. The pressure or vacuum switch is mounted inside of the duplex panel enclosure. This feature eliminates the excessive wiring and/or conduit associated with switches mounted externally on the air receiver.

Reference Dimensions (inches)

	Overall			L	W		Plumbing Connection
Model	Length	Height	Width	Length	Width	Hole	All Female
ROA-P206T	19	18	8	10	4	3/8	1/4
DOA-D106T	18	15	8	10	4	3/8	1/4
1HAB-11T	18	17	8	10	4	3/8	1/4
1LAA-11T	18	17	8	10	4	3/8	1/4
2HAH-11T	18	18	8	10	4	3/8	1/4
3HBB-11T	26	21	14	16	12	7/16	1/4
4HCC-11T	33	27	16	18	14	9/16	1/4
5HCD-11T	33	27	16	18	14	9/16	1/4
6HCA-11T	38	29	17	22	15	9/16	3/8
7HDD-11T	38	29	17	22	15	9/16	3/8
8HDM-11T	38	29	17	22	15	9/16	3/8
0523-V	21	17	10	10	4	3/8	1/4
1023-V	39	30	22	22	15	9/16	1 1/4
2565-V90	40	35	24	24	15	9/16	1 1/4
4HCC-89	48	35	38	26	18 1/2	9/16	1/2
5HCD-95	48	35	38	26	18 1/2	9/16	1/2
6HCA-15	48	35	38	26	18 1/2	9/16	1/2
7HDD-69D	48	35	38	26	18 1/2	9/16	1/2
8HDM-30D	48	35	38	26	18 1/2	9/16	1/2
2565-V93	49	36	37	26	18 1/2	9/16	1 1/4
6066-V113	50	48	34	26	18 1/2	9/16	1 1/4

ACCESSORY	PART NO.	DESCRIPTION	USED ON
PRESSURE AND VACUUM TANK ASSEMBLIES (COMPLETE PACKAGE MINUS PUMP)	AF599D	2 GALLON TANK ASSM FOR ROA & DOA SERIES (PRESSURE)	DOA/ROA-P106-TT
	AF599	2 GALLON TANK ASSEMBLY FOR 48 FRAME PISTON (PRESSURE)	1HAB, 2HAH
	AF599A	2 GALLON TANK ASSM FOR 56 FRAME PISTON (PRESSURE)	4HCC, 5HCD
	AK329	2 GALLON TANK ASSEMBLY FOR 48 FRAME PISTON (LOW PRESSURE)	1LAA-11T-M100X
	AF600	12 GALLON TANK ASSEMBLY FOR 48 FRAME PISTON (PRESSURE)	1HAB, 2HAH, 3HBB
	AF600B	12 GALLON TANK ASSEMBLY FOR 56 FRAME PISTON (PRESSURE)	4HCC, 5HCD, 6HCA
	AF601	20 GALLON TANK ASSEMBLY FOR 2 CYLINDER 56 FRAME PISTON (PRESSURE)	4HCC, 5HCD, 6HCA
	AF606	30 GALLON TANK ASSEMBLY FOR 56 FRAME PISTON (PRESSURE)	5HCD, 6HCA, 7HDD, 8HDM
	AF599H	2 GALLON TANK ASSEMBLY FOR 48 FRAME ROTARY VANE (VACUUM	0523 (OILLESS & LUBE)
	AH293	12 GALLON TANK ASSEMBLY FOR 48 FRAME ROTARY VANE (VACUUM)	0323, 0523
	AH318	30 GALLON TANK ASSEMBLY FOR 56 FRAME ROTARY VANE (VACUUM)	1023 (OILLESS & LUBE)
	AH333	30 GALLON TANK ASSEMBLY FOR “65 SERIES” ROTARY VANE (VACUUM), DOES NOT INCLUDE MAGNETIC STARTER	2565, 2567
	AH336	60 GALLON TANK ASSEMBLY FOR “65 SERIES” ROTARY VANE (VACUUM) DOES NOT INCLUDE MAGNETIC STARTER	2565, 6066
 PRESSURE & VACUUM SWITCHES	AF265	DIAPHRAGM-TYPE UNLOADING PRESSURE SWITCH 10-100 PSI RANGE, 20-30 LB DIFFERENTIAL	ROA-DOA
	AF564	DIAPHRAGM-TYPE PRESSURE SWITCH 10-100 PSI RANGE, 20-30 LB. DIFFERENTIAL (NO UNLOADER)	ALL SIMPLEX SYSTEMS
	AE265	DIAPHRAGM-TYPE VACUUM SWITCH, CUTOUT 5-25” HG, DIFFERENTIAL 4-12” HG	ALL SIMPLEX SYSTEMS
CHECK VALVES	AE238	SPRING-LOADED CHECK VALVE, 1/4 NPTM THREADED AT BOTH ENDS	ROA (PRESSURE) 0523 (VACUUM)
	AJ550	COMPRESSION-TYPE CHECK VALVE, 1/4 NPTF THREADED AT BOTH ENDS	DOA, 1HAB-6HCA (PRESSURE)
	AJ550A	COMPRESSION-TYPE CHECK VALVE, 3/8” NPTF THREADED AT ENDS	7HDD (PRESSURE)
	AJ824	SPRING-LOADED CHECK VALVE, 3/8” NPTF THREADED AT BOTH ENDS	1023 (VACUUM)
	AH326A	SWING CHECK VALVE, 3/4” NPTF THREADED AT BOTH ENDS	2565 (VACUUM)
	AH326B	SWING CHECK VALVE, 1” NPTF THREADED AT BOTH ENDS	6066 (VACUUM)
	AK430	SPRING-LOADED CHECK VALVE, 3/8” NPTF HOSE CONNECTION (INSIDE TANK)	4HCC-8HDM
GAUGES	AA806	2” DIAL FACE PRESSURE GAUGE, 0-160 PSI (0-11 BAR), 1/4” NPTM MOUNTING	ALL SIMPLEX
	AE362	2” DIAL FACE PRESSURE GAUGE, 0-100 PSI (0-7 BAR) 1/4” NPTM BOTTOM MOUNTING	ALL DUPLEX PRESSURE SYSTEMS
	AE136	2” DIAL FACE VACUUM GAUGE, 0-30 HG (0-76MM HG) 1/4” NPTM BACK MOUNTING	ALL SIMPLEX VACUUM SYSTEMS
	AA640	2” DIAL FACE VACUUM GAUGE, 0-30 HG (0-76MM HG) 1/4” NPTM BOTTOM MOUNTING	ALL DUPLEX VACUUM SYSTEMS

ACCESSORY	PART NO.	DESCRIPTION	USED ON
DRAINS	AE248	MANUAL DRAIN COCK, 1/4" NPTM	ALL SYSTEMS
	AK602	AUTO TANK DRAIN, 1/4" NPT	PRESSURE SYSTEMS
	K602	AUTO TANK DRAIN ASSEMBLY	PRESSURE SYSTEMS
INTAKE FILTERS	AH190	1/4" NPTM, PLASTIC WITH INTERNAL FELTS (FOR LOWER FLOWS)	ROA (CAN BE USED ON DOA)
	B300A	1/4" NPTM, PLASTIC WITH INTERNAL FELTS	1HAB-7HDD
	B300F	3/8" NPTM, PLASTIC WITH INTERNAL FELTS	8HDM
	AA900D	JAR-TYPE, 3/4" NPTF PORTS	2565
	AV460C	CATCH POT WITH VACUUM BAG ELEMENT AND CLOTH SACK, 1 1/4" NPTF PORTS (INSTALL BEFORE TANK)	6066
	V400G	JAR-TYPE, 3/4" NPTF PORTS	0523 (OILLESS & LUBRICATED)
	AB599	JAR-TYPE, 3/8" NPTF PORTS	1023 (OILLESS & LUBRICATED)
EXHAUST MUFFLERS	V425L	JAR-TYPE, 1/4" NPTF WITH DEFLECTOR IN EXHAUST PORT	0523 (OILLESS & LUBRICATED)
	AB599B	JAR-TYPE, 3/8" NPTF WITH DEFLECTOR IN EXHAUST PORT	1023 (OILLESS & LUBRICATED)
	AA900E	JAR-TYPE, 3/4" NPTF WITH DEFLECTOR IN EXHAUST PORT	2565 SIMPLEX AND DUPLEX
	AD560B	JAR-TYPE, 1" NPTF WITH DEFLECTOR IN EXHAUST PORT	6066
SHOCK MOUNTS	AF631	1" DIA, 3/4" THICKNESS, 1/4 X 20 THREADING 1/2" LONG	OPTIONAL
	AF633	1 1/2" DIA, 1" THICKNESS, 5/16 X 18 THREADING 5/8" LONG	ALL SYSTEMS EXCEPT ROA AND DOA
 HOSE AND TUBING	AE814B	12 1/2" L. PLASTIC TUBING (NEEDS AG427 MALE CONNECTOR)	ROA, DOA
	AF634	14" L. TEFLON CORE, 1/4" NPTM FITTINGS	1HAB-5HCD
	AH332	16" L. TEFLON CORE, 3/8" NPTM FITTINGS	6HCA-8HDM
	AH325F	16" L. PLASTIC TUBING (NEEDS 2-AH138E CLAMPS)	0523 (OILLESS & LUBRICATED)
	AH325	16 3/4" L. PLASTIC TUBING (NEEDS 2-AH138C CLAMPS)	2565
	AH307C	25 1/2" L. PLASTIC TUBING (NEEDS 2-AH138D CLAMPS)	6066
BASES 	AF953	SINGLE BASE FOR 56 FRAME PISTON UNITS (NEED 1)	4HCC-8HDM DUPLEX
	AH340	BASE FOR DUPLEX VACUUM SYSTEM (NEED 2)	2565
	AB322E	BASE FOR DUPLEX VACUUM SYSTEM (NEED 2)	6066
	AE144	BACKPLATE, MOUNTING MAGNETIC STARTER	1, 1 1/2 HP
OIL & SOLVENT	AD220	1 QUART HIGH DETERGENT 10 WEIGHT LUBRICATING OIL	0523, 1023, 2565
	AH255B	32 OUNCES OF NONFLAMMABLE FLUSHING SOLVENT	VACUUM SYSTEMS